

INVENTORS: Brian J. Smith and Janice C. Rock

TITLE OF INVENTION: A Passive Radar Detector for Dualizing Missile
Seeker Capability

INFORMATION DISCLOSURE STATEMENT

- A) U. S. Patent 6,424,286 B1 teaches a device to jam a hostile radar to render it ineffective and vulnerable. During the “blind range” between the termination of an RF missile’s active tracking of the target radar at a pre-selected distance from the target and its impact on the target, the jamming device produces and broadcasts, via the missile’s antenna, signals that are designed to jam and frustrate the target radar. However, the RF missile itself does not gain any additional guidance modes, nor does it perform azimuth or elevation direction finding activities as a result of the jamming device.

Applicants’ invention, on the other hand, does perform azimuth and elevation direction finding on the signals received from the target radar. Further, applicants’ invention provides additional guidance to the missile by passively detecting any emissions from the target radar and processing them into signals that are usable by the missile in guiding itself to make a more direct hit upon the target.



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